Chart 11316 NM 49/02

MATAGORDA SHIP CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	39.0	38.0	39.0	6-02	300	3.21	38
THENCE TO LIGHT 48	34.0	36.0	34.0	6-02	300-200	10.84	36
THENCE TO LIGHT 76	32.0	34.0	34.0	6-02	200	7.42	36
THENCE TO POINT COMFORT TURNING BASIN	32.0	30.0	30.0	6-02	200-399	0.98	36
TURNING BASIN	33.0	34.0	33.0	6-02	1000	0.17	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11317 NM 49/02

MATAGORDA SHIP CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SEA BAR AND JETTY CHANNEL	39.0	38.0	39.0	6-02	300	3.21	38
THENCE TO LIGHT 48	34.0	36.0	34.0	6-02	300-200	10.84	36
THENCE TO LIGHT 76	32.0	34.0	34.0	6-02	200	7.42	36
THENCE TO POINT COMFORT TURNING BASIN	32.0	30.0	30.0	6-02	200-399	0.98	36
TURNING BASIN	33.0	34.0	33.0	6-02	1000	0.17	36

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11322 (Side B) NM 49/02

FREEPORT HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
CHANNEL FROM DEEP WATER TO SEAWARD END OF JETTY	46.0	48.0	43.0	9-02	400	3.7	47
JETTY CHANNEL	46.0	47.0	41.0	9-02	400	1.2	45
LOWER TURNING BASIN	45.0	48.0	46.0	9-02	750	0.9	45
THENCE TO BRAZOSPORT TURNING BASIN	47.0	49.0	48.0	9-02	400-600	0.4	45
BRAZOSPORT TURNING BASIN	47.0	49.0	46.0	9-02	500-1000	0.2	45
CHANNEL TO UPPER TURNING BASIN	46.0	49.0	46.0	9-02	280-470	0.9	45
BRAZOS HARBOR APPROACH CHANNEL	37.0	38.0	39.0	6-02	200-650	0.5	36
BRAZOS HARBOR TURNING BASIN	36.0	37.0	38.0	6-02	750	0.1	36
UPPER TURNING BASIN	48.0	47.0	49.0	9-02	600-1190	0.2	45
CHANNEL TO STAUFFER TURNING BASIN	17.0	19.0	17.5	11-88	200	1.0	25
STAUFFER TURNING BASIN	18.0	18.0	16.0	11-88	500	0.1	25

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11325 NM 49/02

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT). LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HOUSTON SHIP CHANNEL:								
EXXON OIL CO. SLIP								
TO CARPENTERS BAYOU (A)	32.0	39.0	41.0	33.0	3-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	38.0	35.0	29.0	8-02	400-300	4.70	40
GREENS BAYOU CHANNEL								
(TO FIRST BEND)	39.0	42.0	44.0	42.0	4-02	500-175	0.34	36
THENCE TO HUNTING								
BAYOU (UPPER BEND)	40.0	43.0	43.0	40.0	8-02	300	1.91	40
TURNING POINT AT HUNTING BAYOU	43.0	42.0	42.0	41.0	6-02	600	0.17	40
THENCE TO SOUTHERN								
PACIFIC SLIP	39.0	41.0	41.0	38.0	8-02	300	3.04	40
TURNING POINT AT SIMS BAYOU	43.0	44.0	42.0	42.0	6-02	700	0.26	40
THENCE TO HOUSTON								
TURNING BASIN WHARF 15	41.0	42.0	41.0	38.0	8-02	300	2.69	36
TURNING POINT AT BRADY ISLAND	22.0	33.0	40.0	39.0	5-02	422	0.17	36
HOUSTON TURNING BASIN	36.0	35.0	37.0	35.0	7-02	250-1000	0.70	36
UPPER TURNING BASIN	21.0	22.0	15.0	19.0	7-02	150	0.23	36

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.

B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11327 NM 49/02

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END								
OF MORGAN POINT	29.0	34.0	40.0	34.0	6-01; 7-02	400-530	23.4	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11328 NM 49/02

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BOLIVAR ROADS TO LOWER END								
OF MORGAN POINT	29.0	34.0	40.0	34.0	6-01; 7-02	400-530	23.4	40
LOWER END OF MORGAN PT.								
TO EXXON OIL CO. SLIP	36.0	40.0	39.0	33.0	3-02	400-525	4.2	40

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11329 NM 49/02

HOUSTON SHIP CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOW TIDE (MLT). LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
LOWER END OF MORGAN PT. TO EXXON OIL CO. SLIP	36.0	40.0	39.0	33.0	3-02	400-525	4.20	40
EXXON OIL CO. SLIP TO CARPENTERS BAYOU (A)	32.0	39.0	41.0	33.0	3-02	400-525	4.90	40
THENCE TO GREENS BAYOU (B)	38.0	38.0	35.0	29.0	8-02	400-300	4.70	40

A. CHANNEL WIDENS 125 FEET IN LEFT OUTSIDE QUARTER IN VICINITY OF EXXON OIL CO.

B. CHANNEL NARROWS IN VICINITY OF THE SHELL OIL CO. SLIP.

INFORMATION IN THIS TABULATION HAS BEEN PROVIDED TO NOAA BY THE U.S. ARMY CORPS OF ENGINEERS. DEPTHS ARE REFERENCED TO A LOCAL DREDGING REFERENCE CALLED MEAN LOW TIDE. FOR AN APPROXIMATE CONVERSION TO MEAN LOWER LOW WATER, ADD 1 FOOT TO EACH DEPTH IN THE TABULATION.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11332 NM 49/02

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	39	42	43	40	8-02	800	12.8	42
OUTER BAR CHANNEL	38	42	42	42	8-02	800	3.0	42
JETTY CHANNEL	36	41	40	33	9-02	800-500	3.5	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11341 NM 49/02

SABINE PASS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW) LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	PROJECT DIMENSIONS WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE BANK CHANNEL	39	42	43	40	8-02	800	12.8	42
OUTER BAR CHANNEL	38	42	42	42	8-02	800	3.0	42
JETTY CHANNEL	36	41	40	33	9-02	800-500	3.5	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11342 NM 49/02

SABINE PASS - SABINE - NECHES CANAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE PASS:								
OUTER BAR CHANNEL	38	42	42	42	8-02	800	3.0	42
JETTY CHANNEL	36	41	40	33	9-02	800-500	3.5	40
PASS CHANNEL	34	40	40	36	4-02	500-1150	4.9	40
ANCHORAGE BASIN	33	19	13	6	4-02	1500	0.5	40
PORT ARTHUR SHIP CANAL	34	39	37	31	11-01	500	4.8	40
JUNCTION PORT ARTHUR-SABINE NECHES CANALS	37	40	41	39	8-02	400-1200	1.1	40
ENTRANCE TO PORT ARTHUR TURNING BASINS	40	40	40	40	5-02	282-735	0.2	40
EAST TURNING BASIN	40	40	40	40	5-02	370-547	0.3	40
WEST TURNING BASIN	40	40	40	40	5-02	350-735	0.3	40
CHANNEL CONNECTING WEST BASIN AND TAYLOR BAYOU TURNING BASIN	40	40	40	36	6-02	200-350	0.5	40
TAYLOR BAYOU TURNING BASIN	24	40	40	37	6-02	90-1233	0.6	40
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	37	40	41	39	8-02	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	25	23	22	8-02	200	3.9	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11343 NM 49/02

SABINE AND NECHES RIVERS CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
SABINE-NECHES CANAL:								
PORT ARTHUR TO NECHES RIVER	37	40	41	39	8-02	400	9.6	40
NECHES RIVER TO SABINE RIVER	26	25	23	22	8-02	200	3.9	30
NECHES RIVER:								
MOUTH TO SMITH BLUFF	24	29	33	31	5-02	400	8.3	40
TURNING BASIN AT DEER BAYOU	37	36	34	34	5-02	700	0.2	40
TURNING BASIN AT SMITHS BLUFF	37	37	35	33	5-02	1400-400	0.2	40
SMITH BLUFF TO BEAUMONT	29	39	38	31	5-02	400	7.5	40
TURNING BASIN (30°02'12"N, 94°01'58"W)	31	39	40	37	5-02	400-1306	0.2	40
CHANNEL EXTENSION	33	35	32	28	5-02	350	0.2	36
MANEUVERING AREA (30°04'44"N, 94°05'05"W)	29	39	39	33	5-02	400-1000	0.6	40
BEAUMONT TURNING BASIN	37	37	38	37	5-02	400-535	0.2	34
TURNING BASIN EXTENSION	32	35	32	27	5-02	300	0.2	34
THENCE TO TRINITY INDUSTRIES	17	23	20	15	5-02	200	0.6	30
SABINE RIVER:								
MOUTH TO ORANGE MUNICIPAL SLIP	26	29	30	26	11-01	200	6.6	30
ORANGE TURNING BASIN	26	26	29	28	11-01	200 - 1400	0.6	30
ORANGE MUNICIPAL SLIP	26	30	24	23	11-01	150-200	0.5	30
ORANGE MUNICIPAL SLIP TO OLD HIGHWAY BRIDGE SITE	26	29	30	29	11-01	200	2.2	30
CHANNEL AROUND ORANGE HARBOR ISLAND	13	16	20	18	11-01	150-200	1.6	25

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11344 NM 49/02

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	39.0	39.0	26.0	8-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11347 (Side A) NM 49/02

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	39.0	39.0	27.0	8-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	32.0	37.0	40.0	35.0	1-02;8-02	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	37.0	40.0	40.0	37.0	1-02	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	34.0	38.0	39.0	33.0	7-01;1-02	400	5.0	40
THENCE TO 210 BRIDGE	35.0	39.0	36.0	35.0	2-02	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	30.0	39.0	39.0	34.0	2-02	400	2.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11347 (Side B) NM 49/02

CALCASIEU PASS AND RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	30.0	39.0	39.0	27.0	8-02	800	19.1	42
JETTY CHANNEL TO (29°46'00.0"N, 93°20'40.0"W)	31.0	40.0	47.0	48.0	6-01;8-02	400	1.4	40
THENCE TO A POINT (29°52'00.0"N, 93°20'43.0"W)	20.0	39.0	40.0	37.0	8-02	400	6.0	40
THENCE TO A POINT (29°58'00.0"N, 93°20'10.0"W)	32.0	37.0	40.0	35.0	1-02;8-02	400	6.0	40
THENCE TO A POINT (A) (30°04'00.0"N, 93°19'38.0"W)	37.0	40.0	40.0	37.0	1-02	400	6.0	40
THENCE TO A POINT (B) (30°09'00.0"N, 93°19'58.0"W)	34.0	38.0	39.0	33.0	7-01;1-02	400	5.0	40
THENCE TO 210 BRIDGE	35.0	39.0	36.0	35.0	2-02	400	4.4	40
THENCE TO END OF 400 CHANNEL (30°13'09.0"N, 93°15'08.0"W)	30.0	39.0	39.0	34.0	2-02	400	2.0	40

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11353 NM 49/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			WIDTH (FEET)	DATE OF SURVEY
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	29.0	34.0	24.0	600	9-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	32.0	35.0	29.0	500	9-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11363 NM 49/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)			WIDTH (FEET)	DATE OF SURVEY
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER		
LT. BUOY 1 (29°25'27"N, 88°59'31"W) TO LT. BUOY 20	29.0	34.0	24.0	600	9-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	32.0	35.0	29.0	500	9-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11364 NM 49/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W)					
TO LT. BUOY 20	29.0	34.0	24.0	600	9-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	32.0	35.0	29.0	500	9-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11369 NM 49/02

MISSISSIPPI RIVER - GULF OUTLET CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)

NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	WIDTH (FEET)	DATE OF SURVEY
LT. BUOY 1 (29°25'27"N, 88°59'31"W)					
TO LT. BUOY 20	29.0	34.0	24.0	600	9-02
THENCE TO END OF JETTY OPPOSITE LIGHT 62	32.0	35.0	29.0	500	9-02
THENCE TO INTERSECTION WITH G. I. W. W.	24.0	31.0	21.0	500	3,4,8,9-02
THENCE TO INNER HARBOR NAVIGATION CANAL	25.0	28.0	28.0	500	4-02

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGING CONDITIONS SUBSEQUENT TO THE ABOVE

Chart 11373 NM 49/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2002 AND SURVEYS TO AUG 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40
PASCAGOULA CHANNEL	32.3	34.2	34.8	11-01; 1,6,8-02	350	10.8	38
TURNING BASIN	34.4	38.0	37.6	8-02	950	0.4	38
BAYOU CASOTTE CHANNEL	39.4	42.0	39.8	6-02	350	3.3	42
TURNING BASIN	42.0	42.0	42.0	6-02	1000	0.3	42

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11374 (Side B) NM 49/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2002 AND SURVEYS TO AUG 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40
PASCAGOULA CHANNEL	32.3	34.2	34.8	11-01; 1,6,8-02	350	10.8	38
TURNING BASIN	34.4	38.0	37.6	8-02	950	0.4	38
BAYOU CASOTTE CHANNEL	39.4	42.0	39.8	6-02	350	3.3	42
TURNING BASIN	42.0	42.0	42.0	6-02	1000	0.3	42

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11375 NM 49/02

HORN ISLAND PASS PASCAGOULA HARBOR AND BAYOU CASOTTE CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUN 2002 AND SURVEYS TO AUG 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
HORN ISLAND PASS CHANNEL	40.7	40.3	33.2	8-00	450	4.4	40.0
PASCAGOULA CHANNEL	32.3	34.2	34.8	11-01; 1,6,8-02	350	10.8	38.0
TURNING BASIN	34.4	38.0	37.6	8-02	950	0.4	38.0
BAYOU CASOTTE CHANNEL	39.4	42.0	39.8	6-02	350	3.3	42.0
TURNING BASIN	42.0	42.0	42.0	6-02	1000	0.3	42.0

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11478 NM 49/02

PORT CANAVERAL CHANNEL DEPTHS
TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002 AND SURVEYS OF AUG 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	40.8	40.7	41.1	41.1	4-02	400	5.5	44
MIDDLE REACH	44.0	44.5	44.0	44.5	8-02	400	0.9	44
INNER REACH	38.2	40.8	41.0	38.4	4-02	400	0.8	40
WEST ACCESS CHANNEL (EAST PORTION)	38.3	40.2	40.6	38.6	8-02	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	30.1	34.0	34.8	34.1	8-02	400	0.3	31

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11481 NM 49/02

PORT CANAVERAL CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002 AND SURVEYS OF AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OUTER REACH	40.8	40.7	41.1	41.1	4-02	400	5.5	44
MIDDLE REACH	44.0	44.5	44.0	44.5	8-02	400	0.9	44
INNER REACH	38.2	40.8	41.0	38.4	4-02	400	0.8	40
WEST ACCESS CHANNEL (EAST PORTION)	38.3	40.2	40.6	38.6	8-02	400	0.3	39
WEST ACCESS CHANNEL (WEST PORTION)	30.1	34.0	34.8	34.1	8-02	400	0.3	31

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11505 NM 49/02

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	41.5	42.5	43.0	43.5	10-02	600	3.3	44
BLOODY POINT RANGE	42.0	42.5	42.5	43.5	10-02	600	3.0	44
JONES ISLAND RANGE	44.0	42.0	42.5	44.0	10-02	600	1.2	44
TYBEE KNOLL CUT RANGE	42.0	42.5	43.0	43.5	10-02	500	2.5	42

NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.

NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.

NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11506 NM 49/02

BRUNSWICK HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL							
(ST SIMON RANGE)	28.5	32.0	A30.0	8-02	500	7.7	32
PLANTATION CREEK RANGE	34.0	39.0	39.0	8-02	400	1.8	32
JEKYLL ISLAND RANGE	29.0	32.0	31.0	8-02	400	1.9	30
CEDAR HAMMOCK RANGE	29.0	31.5	30.0	8-02	400	1.4	30
BRUNSWICK PT CUT RANGE	28.0	29.0	27.0	8-02	400	2.4	30
EAST RIVER							
LOWER REACH	B29.0	30.0	28.5	8-02	400	1.1	30
UPPER REACH	27.0	27.0	25.0	8-02	350	1.0	27
EAST RIVER TURNING BASIN	26.5	26.5	26.5	8-02	750	0.2	30
TURTLE RIVER LOWER RANGE	35.0	31.0	30.0	8-02	300	1.7	30
BLYTHE ISLAND RANGE	31.0	26.5	26.0	8-02	300	1.5	30
TURTLE RIVER UPPER RANGE	28.0	28.0	26.0	8-02	300	1.7	30
SOUTH BRUNSWICK RIVER	31.0	32.0	30.0	8-02	400	1.3	30

A. OBSTRUCTION REPORTED WITH A DEPTH OF 29 FEET, LOCATED AT 31°04'06.6"N; 081°16'35.7"W.

B. THE EAST RIVER, LOWER REACH WIDENER LEAST DEPTHS WERE 25.5 FEET, LOCATED 50 FEET INSIDE THE CHANNEL LIMIT, AND 30.0 FEET, LOCATED 150 FEET INSIDE THE CHANNEL LIMIT FROM THE LEFT SIDE.

NOTE - FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 50 FEET INSIDE THE CHANNEL LIMITS. (EXCEPT FOR THE EAST RIVER TURNING BASIN)

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11512 NM 49/02

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
TYBEE RANGE	41.5	42.5	43.0	43.5	10-02	600	3.3	44
BLOODY POINT RANGE	42.0	42.5	42.5	43.5	10-02	600	3.0	44
JONES ISLAND RANGE	44.0	42.0	42.5	44.0	10-02	600	1.2	44
TYBEE KNOLL CUT RANGE	42.0	42.5	43.0	43.5	10-02	500	2.5	42
NEW CHANNEL RANGE (A)	37.0	41.5	42.5	39.0	10-02	500	1.6	42
L. I. CROSSING RANGE	40.5	43.0	44.0	39.0	10-02	500	2.6	42
LOWER FLATS RANGE	41.0	46.0	46.0	42.5	10-02	500	1.3	42
UPPER FLATS RANGE	44.5	46.5	45.5	40.5	10-02	500	1.2	42
THE BIGHT CHANNEL	44.0	46.0	47.0	46.0	10-02	500	1.5	42
FT. JACKSON RANGE	45.5	47.5	47.0	40.0	10-02	500	0.7	42
OGLETHORPE RANGE	40.5	45.5	45.0	44.5	10-02	500	1.2	42
WRECKS CHANNEL (B)	41.5	46.0	47.0	45.0	10-02	500	1.5	42
CITY FRONT CHANNEL	43.5	43.5	44.0	40.5	10-02	500	1.5	42
MARSH ISLAND CHANNEL (C)	43.0	44.5	45.0	42.5	10-02	500	1.7	42
KINGS ISLAND CHANNEL (D)	38.0	40.5	43.0	43.0	10-02	500	2.1	42
WHITEHALL CHANNEL (E)	29.5	31.0	33.5	36.0	10-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (F)	30.0	32.5	31.0	32.0	12-94; 10-02	200	1.2	30

A. OYSTER BED I.TURNING BASIN-CONTROLLING DEPTH 42.0 FT, 37.0 FT 100 FT FROM BACKSIDE.
B. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0 FT, 41.0 FT 100 FT FROM BACKSIDE.
C. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 37.0 FT, 28.0 FT 100 FT FROM BACKSIDE.
D. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 36.0 FT, 31.0 FT 100 FT FROM BACKSIDE.
E. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.
F. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 11514 (Side A) NM 49/02

SAVANNAH RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF OCT 2002

	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
OGLETHORPE RANGE	40.5	45.5	45.0	44.5	10-02	500	1.2	42
WRECKS CHANNEL (A)	41.5	46.0	47.0	45.0	10-02	500	1.5	42
CITY FRONT CHANNEL	43.5	43.5	44.0	40.5	10-02	500	1.5	42
MARSH ISLAND CHANNEL (B)	43.0	44.5	45.0	42.5	10-02	500	1.7	42
KINGS ISLAND CHANNEL (C)	38.0	40.5	43.0	43.0	10-02	500	2.1	42
WHITEHALL CHANNEL (D)	29.5	31.0	33.5	36.0	10-02	400	0.6	42-36
PORT WENTWORTH CHANNEL (E)	30.0	32.5	31.0	32.0	12-94; 10-02	200	1.2	30

A. FIG ISLAND TURNING BASIN-CONTROLLING DEPTH 42.0, 41.0 FT 100 FT FROM BACKSIDE.
B. MARSH ISLAND TURNING BASIN-CONTROLLING DEPTH 37.0 FT, 28.0 FT 100 FT FROM BACKSIDE.
C. KINGS ISLAND TURNING BASIN-CONTROLLING DEPTH 36.0 FT, 31.0 FT 100 FT FROM BACKSIDE.
D. ARGYLE ISLAND TURNING BASIN-CONTROLLING DEPTH 37.5 FT 100 FT FROM BACKSIDE.
E. PORT WENTWORTH TURNING BASIN-CONTROLLING DEPTH 32.0 FT, 25.0 FT 100 FT FROM BACKSIDE.
NOTE: AT MEAN HIGH WATER, DEPTHS ARE ABOUT 7 FEET GREATER AT LOWER END OF THE HARBOR AND 7.7 FEET GREATER AT UPPER END OF HARBOR.
NOTE: FOR THE LEFT OUTSIDE AND RIGHT OUTSIDE QUARTERS, DEPTHS GIVEN REPRESENT CONDITIONS 75 FEET INSIDE THE CHANNEL LIMITS.
NOTE- CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18502 NM 49/02

GRAYS HARBOR

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF JUL 2002 AND SURVEYS TO MAY 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	44.8	45.8	46.0	2-02	1000	4.6	46
ENTRANCE RANGE	32.1	34.4	36.5	2-02	900-600	1.8	42
PT CHEHALIS REACH	33.8	35.1	36.9	2-02	600	1.2	40
SOUTH REACH	35.0	38.2	33.2	1-02	600-350	4.1	36
CROSSOVER CHANNEL	30.8	36.2	31.4	5-02	350-450	2.5	36
NORTH CHANNEL	35.2	36.9	32.2	5-02	450-350	2.4	36
HOQUIAM REACH	34.5	37.6	32.8	5-02	350	1.9	36
COW POINT REACH	35.8	36.1	34.5	5-02	350-900	1.8	36
ABERDEEN REACH	27.8	29.8	29.0	10-01; 2-02	550-200	2.6	30
TURNING BASIN	32.5	32.4	24.5	1-02	200-550	.3	30
THENCE TO COSMOPOLIS	26.5	26.9	27.7	1-02	200	.8	30

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18521 NM 49/02

COLUMBIA RIVER CHANNEL DEPTHS
ENTRANCE TO MILLER SANDS RANGE

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUNE 2002

* SEE FOOTNOTE						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH * (MILES)	DEPTH * (FEET)
ENTRANCE RANGE	55	56	51	43	3-02	2640	3.3	48
SAND ISLAND RANGE (CLATSOP SPIT)	50	53	50	44	3-02	2640	2.2	48
LOWER DESDEMONA SHOAL	47	45	40	31	3,6-02	600	3.4	40
UPPER DESDEMONA SHOAL	44	46	46	45	6-02	600	3.7	40
TANSY POINT TURN AND RANGE	41	40	40	39	5-02	600	4.7	40
ASTORIA RANGE	42	42	41	43	6-02	600	2.7	40
TONGUE POINT CHANNEL	38	42	42	41	6-02	600	2.2	40
HARRINGTON POINT RANGE	39	39	40	42	6-02	600	2.6	40
MILLER SANDS RANGE	34	42	42	40	6-02	600	2.2	40

* CONTROLLING DEPTHS IN CHANNELS ENTERING FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER FROM THE ENTRANCE TO HARRINGTON POINT AND COLUMBIA RIVER DATUM ABOVE THAT POINT. PROJECT LENGTHS ARE IN STATUTE MILES.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18583 NM 49/02

SIUSLAW RIVER

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE TO HIGHWAY BRIDGE	9	10	11	3-02; 9-02	300-200	5.0	18-16
TURNING BASIN	10	8	6	3-02	400	0.3	16
TURNING BASIN TO CUSHMAN	8	9	9	7-99;3-02	150	2.1	12

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18584 NM 49/02

UMPQUA RIVER CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEPT 2001 AND SURVEYS TO JUN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL TO LT. 21	19	20	19	10-01; 3, 4, 6-02	200	7.0	26-22
LT. 21 TO REEDSPORT	16	18	18	5-02	200	2.7	22
REEDSPORT TURNING BASIN	22	22	22	5-02	600	0.2	22
LT. 21 TO GARDINER	12	13	11	10-01	200	1.15	22
GARDINER TURNING BASIN	5	2	2	10-01	500	0.2	22

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18588 NM 49/02

COQUILLE RIVER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - REPORT OF SEP 2002 AND SURVEYS TO SEP 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A ENTRANCE CHANNEL	13	15	14	9-02	200	0.33	13.0
ENTRANCE CHANNEL TO PORT DOCK (43°07'15.9"N, 124°24'50.5"W)	14	14	13	9-02	200	0.63	13.0
THENCE TO END OF PROJECT	13	14	14	7-02	150	0.38	13.0

A. THE ENTRANCE CHANNEL IS SUBJECT TO FREQUENT CHANGES AND THE DEEPEST WATER IS NOT ALWAYS ON THE RANGE.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18622 NM 49/02

HUMBOLDT BAY AND HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUN 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	42.9	44.5	43.8	37.8	6-02	2100-750	1.0	48
ENTRANCE CHANNEL	30.9	46.3	46.0	47.1	6-02	750	0.8	48
NORTH BAY CHANNEL	27.5	36.4	34.9	25.8	6-02	400-500	3.0	38
EUREKA CHANNEL								
OUTER REACH	33.2	34.3	32.4	23.7	6-02	400	0.4	38
INNER REACH	17.8A	16.4B	16.5C	14.2D	6-02	400	1.1	26
SAMOA CHANNEL	37.6	38.0	38.0	36.6	6-02	400	1.3	38
TURNING BASIN	35.4	35.9	34.1	33.5	6-02	400-1000	0.3	38
FIELDS LANDING CHANNEL	27.1	27.6	27.1	17.9	6-02	300	1.9	26
TURNING BASIN	15.8	18.3	28.2	25.2	6-02	300-800	0.1	26

A. SHOALING TO 5.8 FEET FOR LAST 3,000 FEET OF THE REACH.

B. SHOALING TO 3.3 FEET FOR LAST 3,000 FEET OF THE REACH.

C. SHOALING TO 11.4 FEET FROM 40°48'23.66"/124°10'01.71" TO 40°48'25.37"/124°09'35.98", SHOALING TO 5.2 FEET FOR LAST 500 FEET OF THE REACH.

D. SHOALING TO 11.0 FEET FROM 40°48'22.94"/124°09'59.16" TO 40°48'24.49"/124°09'35.63", SHOALING TO 6.0 FEET FOR LAST 500 FEET OF THE REACH.

NOTE-CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18643 NM 49/02

BODEGA HARBOR CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO OCT 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ENTRANCE CHANNEL	12.6	11.1	11.7	2-91;4-92;7-02	100	0.28	12
LOWER TURNING BASIN	11.6	8.0	4.9	10-96;7-02	100-300	0.19	12
THENCE TO DAYBEACON 15	8.4	8.7	10.1	10-96;7-02	100-130	0.42	12
THENCE TO DAYBEACON 23	10.6	12.0	12.7	10-96;7-02	100	0.43	12
THENCE TO SECOND TURNING BASIN	13.4	12.8	11.4	10-96;7-02	100	0.60	12
SECOND TURNING BASIN	10.4 A	9.1	10.0	10-96;7-02	100-400	0.20	12
THENCE TO DAYBEACON 44	12.6	13.0	11.7	10-96;7-02	100	0.21	12
THENCE TO UPPER TURNING BASIN	10.4	11.4	11.3	10-96;7-02	100	0.27	12
UPPER TURNING BASIN	7.3	7.2	8.6	10-96;7-02	100-400	0.15	12

A. SHOALING TO 1.1 FEET IN THE INSIDE HALF OF QUARTER AND SHOALING TO 10.4 FEET IN THE OUTSIDE HALF OF QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18654 NM 49/02

MARE ISLAND STRAIT CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002

CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A	A17.5	19.3	25.1	B24.7	8-02	700	0.3	30
B	C14.6	31.8	33.8	D21.0	8-02	700	0.3	30
C	E17.2	24.0	25.3	F14.3	8-02	700-1000	0.6	30
D	G 8.6	25.2	23.9	H13.6	8-02	1000	0.5	30
E	I 5.9	26.5	25.2	J 8.4	8-02	1000	0.5	30
F	K10.0	24.1	25.0	L 7.8	8-02	1000	0.4	30
G	20.8	20.3	20.5	19.8	4-86	1000-940	0.2	30-26

A. A DEPTH OF 18.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 30.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 26.6 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 27.8 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
E. A DEPTH OF 23.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
F. A DEPTH OF 20.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
G. A DEPTH OF 23.2 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
H. A DEPTH OF 19.2 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
I. A DEPTH OF 23.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
J. A DEPTH OF 16.1 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
K. A DEPTH OF 22.6 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
L. A DEPTH OF 17.1 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18655 NM 49/02

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO AUG 2002								
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)						PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
A	A17.5	19.3	25.1	B24.7	8-02	700	0.3	30
B	C14.6	31.8	33.8	D21.0	8-02	700	0.3	30
C	E17.2	24.0	25.3	F14.3	8-02	700-1000	0.6	30
D	G 8.6	25.2	23.9	H13.6	8-02	1000	0.5	30
E	I 5.9	26.5	25.2	J 8.4	8-02	1000	0.5	30
F	K10.0	24.1	25.0	L 7.8	8-02	1000	0.4	30
G	20.8	20.3	20.5	19.8	4-86	1000-940	0.2	30-26

A. A DEPTH OF 18.5 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
B. A DEPTH OF 30.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
C. A DEPTH OF 26.6 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
D. A DEPTH OF 27.8 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
E. A DEPTH OF 23.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
F. A DEPTH OF 20.9 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
G. A DEPTH OF 23.2 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
H. A DEPTH OF 19.2 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
I. A DEPTH OF 23.0 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
J. A DEPTH OF 16.1 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
K. A DEPTH OF 22.6 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
L. A DEPTH OF 17.1 FEET WAS AVAILABLE IN THE INSIDE HALF OF THE QUARTER.
NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18659 NM 49/02

SUISUN BAY TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
NEW YORK SLOUGH							
WEST REACH	31.7	34.6	35.5	3-02	400	1.3	35
EAST REACH	32.2	32.9	31.5	3,4-02	400	1.7	35

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18660 (A) NM 49/02

SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002							
CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
NAME OF CHANNEL	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ANTIOCH TO LIGHT 17	32.1	32.9	32.2	4-02	400	3.3	35
LIGHT 17 TO LIGHT 43	A	A	A				
LIGHT 43 TO LIGHT 51	31.5	32.2	32.8	4-02	600	1.5	35
LIGHT 51 TO LIGHT 2	A	A	A				
LIGHT 2 TO LIGHT 6	34.8	35.9	36.1	4-02	225	1.5	35
THENCE TO LIGHT 16	34.2	34.1	31.3	4-02	225-250	2.8	35

A. SEE CHARTED SOUNDINGS.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 18660 (B) NM 49/02

SAN JOAQUIN RIVER-STOCKTON DEEP WATER CHANNEL

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO APR 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)				PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	MIDDLE HALF OF CHANNEL	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
ANTIOCH TO LIGHT 17	32.1	32.9	32.2	4-02	400	3.3	35
LIGHT 17 TO LIGHT 43	A	A	A				
LIGHT 43 TO LIGHT 51	31.5	32.2	32.8	4-02	600	1.5	35
LIGHT 51 TO LIGHT 2	A	A	A				
LIGHT 2 TO LIGHT 6	34.8	35.9	36.1	4-02	225	1.5	35
THENCE TO LIGHT 16	34.2	34.1	31.3	4-02	225-250	2.8	35

A. SEE CHARTED SOUNDINGS.

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION

Chart 25670 NM 49/02

BAHIA DE SAN JUAN CHANNEL DEPTHS

TABULATED FROM SURVEYS BY THE CORPS OF ENGINEERS - SURVEYS TO JUL 2002 AND REPORT OF AUG 2002

NAME OF CHANNEL	CONTROLLING DEPTHS FROM SEAWARD IN FEET AT MEAN LOWER LOW WATER (MLLW)					PROJECT DIMENSIONS		
	LEFT OUTSIDE QUARTER	LEFT INSIDE QUARTER	RIGHT INSIDE QUARTER	RIGHT OUTSIDE QUARTER	DATE OF SURVEY	WIDTH (FEET)	LENGTH (NAUT. MILES)	DEPTH MLLW (FEET)
BAR CHANNEL	42.6	42.6	42.6	41.4	7-02	800-950	0.92	40
ANEGADO CHANNEL	41.3	41.8	42.2	40.1	7-02	800	1.22	40
SAN ANTONIO APPROACH CHANNEL	36.7	35.7	37.1	34.8	7-02	600	0.52	35
SAN ANTONIO CHANNEL	28.5	33.4	35.7	32.0	7-02	500-900	0.61	30
GRAVING DOCK CHANNEL	35.2	38.1	37.7	35.7	7-02	350	0.87	36
ARMY TERMINAL CHANNEL	39.1	42.2	42.1	42.2	7-02	350	0.87	40
PUERTO NUEVO CHANNEL (TO A POINT IN 18°26'21.9"N., 66°05'21.4"W.)	38.3	40.3	39.9	39.2	7-02	350	0.98	39

NOTE - CONSULT THE CORPS OF ENGINEERS FOR CHANGES SUBSEQUENT TO THE ABOVE INFORMATION